

# How to Use FAC91designatedDCAMM: Solar PV Inspection Services Statewide Contract

Updated: 5/23/2018

**Contract #:** FAC91  
**MMARS #:** FAC91\*  
**Initial Contract Term:** 11/30/2015 – 10/31/2017  
**Maximum End Date:** Options to Renew: Two (2) one year extensions  
**Current Contract Term:** 10/31/2017 – 10/31/2018  
**Contract Manager:** Patricia Peterson –857-204-1338  
[Patricia.peterson@mass.gov](mailto:Patricia.peterson@mass.gov)

**This contract contains:** Small Business Purchasing Program (SBPP) Contractors

**UNSPSC:** 26-13-15-07

## Contract Summary

This is a statewide contract for Solar Inspection Services of publically owned solar arrays. There are two levels of inspection available: a comprehensive inspection, usually taking place at five year intervals, which evaluates the arrays at the string level, and a yearly inspection, which is primarily based on performance at expected levels based on the array parameters.

## COMPREHENSIVE INSPECTIONS

**This type of inspection covers all aspects of the array.** The visual inspection looks at all components of the array and checks for any defects, wear and tear, or changes to the array that may take away from the safe operation of the array or its performance. The electrical testing includes a string-level I-V Curve Trace, as well as a full inspection of all the electronic components of the array. The inspector also performs an infrared scan of the modules to evaluate performance at the cell level, on a percentage of the modules, but specifically on those that have indications of poor performance in the I-V Curve Output File. An infrared camera is also used to inspect the electrical connectivity in order to locate loose or failing connections. Calibration may be recommended on all meteorological and monitoring equipment, as prescribed by the manufacturer. A report is provided showing actual vs. estimated production.

**Operational Services Division | One Ashburton Place, Suite 1017 | Boston, MA 02108 | 617-720-3300 | [www.mass.gov/osd](http://www.mass.gov/osd)**

## ANNUAL INSPECTIONS

**This type of inspection shall be a low level performance inspection.** The visual inspection of the entire array occurs first, then the Data Acquisition System is used to compare monthly output reports. A graphical report is then provided showing the actual performance compared with the estimate. The inspector makes recommendations for further testing and/or a site inspection if there is an indication that the array may be operating below estimated production without a good reason.

All contractors on this contract provide both services. Contractors may also perform minor repairs (under \$50,000) to correct deficiencies noted during inspection.

## Benefits and Cost Savings

- Using this contract ensures that your solar installation operates at optimal levels,
- Early identification and resolution of issues helps maximize generation, &
- Pre-negotiated pricing reduces the time needed to engage the vendor.

## Who Can Use This Contract?

**Applicable Procurement Law:** MGL c. 7, § 22; c. 30, § 51, § 52; 801 CMR 21.00.

### **Eligible Entities:**

01. Cities, towns, districts, counties and other political subdivisions;
02. Executive, Legislative and Judicial Branches, including all Departments and elected offices therein;
03. Independent public authorities, commissions and quasi-public agencies;
04. Local public libraries, public school districts and charter schools;
05. Public Hospitals, owned by the Commonwealth;
06. Public institutions of high education;
07. Public purchasing cooperatives;
08. Non-profit, UFR-certified organizations that are doing business with the Commonwealth;
09. Other states and territories with no prior approval by the State Purchasing Agent; &
10. Other entities when designated in writing by the State Purchasing Agent.

## Pricing and Buying Details


**Purchase Options:** Purchases made through this contract will be on a fee for service basis.

**Contract Documents:** All contract documents, including the RFR and this Contract User Guide may be found in the two MBPO for this contract (see Appendix A below for document numbers).

**Price Structure:** Contract pricing is available per array size from each vendor (see Appendix A below). Pricing on this contract is pre-negotiated, so no quotations are required.

### **Finding Complete Contract Information:**

***If you are logged into COMMBUYS:***

- Click on the “Advanced Search” magnify glass in the upper right hand corner,
- Select Contract/Blanket from the drop down menu,
- Type in FAC91 under “Contract/Blanket Description” and choose 3PS-Sent under “Header Major Status”,
- Click “Find It”,
- The results will display one “Contract/Blanket #”,
- To view full contract information click on the Contract/Blanket# link, &
- To download attachments, click this icon .

***If you are not logged into COMMBUYS:***

- Go to [www.commbuys.com](http://www.commbuys.com) and Click on “Contract & Bid Search”,
- Select the “Contracts/Blankets” radio button,
- Enter FAC91 in the “Contract/Blanket” Description field,
- Click “Find It”,
- The results will display one “Contract/Blanket #”, &
- To view full contract information click on the Contract/Blanket# link.

**Contractor Engagement and Purchasing from FAC91 in COMMBUYS:**

***To order an inspection:***

- See Appendix A for pricing and contact the Contractor to schedule an inspection, &
- Eligible Entities using COMMBUYS must issue a COMMBUYS release PO as a “notice to proceed” for the inspection.

***To order a repair based on inspection results (limited to repairs under \$50,000):***

- After the inspection has been completed, the Contractor must inform the Eligible Entity of the need for repairs,
- If the estimated total cost of repairs is under \$50,000, the Eligible Entity will have the option to hire the Contractor to perform the repairs,
- The Eligible Entity must obtain prevailing wage rates from the Dept. of Labor Standards [Prevailing Wage Program](#) and provide them to the Contractor,
- Based on these rates, the Contractor must issue a final quote for the repairs,
- Based on the final quote, the Eligible Entity may engage the Contractor for the repairs,
- Eligible Entities using COMMBUYS must issue a COMMBUYS release PO as a “notice to proceed”, &
- The quote is provided at no charge regardless of whether the Contractor is engaged or not.

## Strategic Sourcing Services Team Members

Team Members	Department / Organization
James A. Freeley	DCAMM Energy
John Crisley	DCAMM Energy
Kaitlyn Menyo	DCAMM Energy
Tom Tagan	DCP
Jeffrey Marcotte	Cape Cod Community College
Lili Oliver	DOT
Kaitlin Kelly	DOER

## Appendix A – Contractor Information and Pricing

### Alares, LLC

**COMMBUYS PO Document Number: PO-16-1019-DCP08-ENR01-00000006235**

Vendor ID: 00000236

Contact Person: Patrick Coughlin

Address: 248 Copeland Street, Quincy, MA 02169

Email: [patc@alaresllc.com](mailto:patc@alaresllc.com)

Phone: (617) 481-6390

FAX: (617) 687-5555

### Annual Inspection Pricing

Size Range of Array (kW DC)	Example Size of Array (kW DC)	Approximate Number of Modules	Cost for Yearly Inspection	Cost per Watt
1 to 50	34	147.8	\$800.00	\$0.024
50 to 100	78	339.1	\$950.00	\$0.012
100 to 250	175	760.9	\$1,050.00	\$0.006
250 to 500	325	1,413.0	\$1,150.00	\$0.004
500 to 1,000	750	3,260.9	\$1,500.00	\$0.002
Above 1,000	2000	8,695.7	\$1,800.00	\$0.001

### Comprehensive Inspection Pricing

Size Range of Array (kW DC)	Example Size of Array (kW DC)	Approximate Number of Modules	Cost for Comprehensive Inspection	Cost per Watt
1 to 50	34	147.8	\$2,450.00	\$0.072
50 to 100	78	339.1	\$2,750.00	\$0.035
100 to 250	175	760.9	\$3,200.00	\$0.018



250 to 500	325	1,413.0	\$4,100.00	\$0.013
500 to 1,000	750	3,260.9	\$5,000.00	\$0.007
Above 1,000	2000	8,695.7	\$6,500.00	\$0.003

### Solar Design Associates, Inc.

**COMMBUYS PO Document Number: PO-16-1019-DCP08-ENR01-00000006236**

Vendor ID: 00009457

Contact Person: Colleen Muldoon

Address: P.O. Box 242, 280 Ayer Rd., Harvard, MA 01451

Email: [sda@solar design.com](mailto:sda@solar design.com)

Phone: (978) 456-6855

FAX: (978) 772-9715

### Annual Inspection Pricing

Size Range of Array (kW DC)	Example Size of Array (kW DC)	Approximate Number of Modules	Cost for Yearly Inspection	Cost per Watt
1 to 50	34	147.8	\$750.00	\$0.022
50 to 100	78	339.1	\$750.00	\$0.010
100 to 250	175	760.9	\$750.00	\$0.004
250 to 500	325	1,413.0	\$750.00	\$0.002
500 to 1,000	750	3,260.9	\$750.00	\$0.001
Above 1,000	2000	8,695.7	\$750.00	\$0.000

### Comprehensive Inspection Pricing

Size Range of Array (kW DC)	Example Size of Array (kW DC)	Approximate Number of Modules	Cost for Comprehensive Inspection	Cost per Watt
1 to 50	34	147.8	\$1,800.00	\$0.053
50 to 100	78	339.1	\$2,610.00	\$0.033
100 to 250	175	760.9	\$4,560.00	\$0.026
250 to 500	325	1,413.0	\$6,080.00	\$0.019
500 to 1,000	750	3,260.9	\$12,160.00	\$0.016
Above 1,000	2000	8,695.7	\$22,800.00	\$0.011